

CLAIMS

1. A clothes treating apparatus comprising:

- a cabinet (1) having external walls (2) and internal walls (3), said internal walls (3) defining an interior region (4) for receiving clothes;
- a door (6) connected to said cabinet (1) for accessing said interior region (4);
- at least a supporting device (5) for supporting clothes within said interior region (4);
- a ventilator (7);
- water supply means (8);
- an ultrasonic nebulizer (9) operatively associated to said water supply means (8);

20 characterized in that the air within said interior region (4) is recirculated by said ventilator (7) through an air duct (10) located between said internal walls (3) and said external walls (2) forming a closed loop with said interior region (4).

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2 A clothes treating apparatus according to claim 1 characterized in that said water supply means (8) comprising a removable water reservoir (15) feeding a pocket (16) hydraulically connected thereto.

30 3 A clothes treating apparatus according to claim 2 characterized in that said pocket (16) is associated with a water level measuring device (18) to monitor the absence of water inside said removable water reservoir (15).

- 4 A clothes treating apparatus according to any of the preceding claims characterized in that said air duct (10) extends substantially along the whole height of said apparatus.
- 5 A clothes treating apparatus according to any of the preceding claims characterized in that said air duct (10) includes heating means (30) to increase the temperature of the air.
- 6 A clothes treating apparatus according to any of the preceding claims characterized in that said air duct (10) includes filtering means (31) to purify the air from odours and/or undesirable particles.
- 7 A clothes treating apparatus according to any of the preceding claims characterized in that said air duct (10) is located on the opposite side of said cabinet (1) in respect to said door (6).
- 8 A clothes treating apparatus according to any of the preceding claims characterized in that the recirculating airflow within said interior region (4) is oriented in a substantially vertical direction.
- 9 A clothes treating apparatus according to any of the preceding claims characterized in that said air duct (10) comprises an air intake port (11) located at the top of said interior region (4) and an air outlet port (12) located at the bottom of said interior region (4).
- 10 A clothes treating apparatus according to claim 9 characterized in that said air intake port (11) and said air outlet port (12) are covered by a protective grate (13, 14).
- 11 A clothes treating apparatus according to claim 9 characterized in that said air outlet port (12) contains at least a part of said pocket (16).
- 12 A clothes treating apparatus according to claim 11 characterized in that said pocket is associated to a conveyor (25) which directs at least a part of the air

flowing from said air duct (10) into said pocket (16) and allows said air mixed with the mist produced by the ultrasonic nebulizer (9) to escape from said pocket (16) accessing said interior region (4).

5 13 A clothes treating apparatus according to claim 12 **characterized in that** said conveyor (25) comprises a central body (27) shaped as a frustum of a cone and at least a tubular member (26) protruding therefrom.

10 14 A clothes treating apparatus according to any of the preceding claims **characterized in that** said ventilator (7) is a centrifugal ventilator.

15 15 A clothes treating apparatus according to any of the preceding claims **characterized in that** the working conditions of said apparatus are driven by an electronic control system.

15 16 A clothes treating apparatus according to any of the preceding claims **characterized in that** said cabinet (1) has a structure adapted to be built-in.